This 6.5 inch 8 ohm driver is a member of the high performance HDA (High Definition Audio) series.

- Powerful high grade Ferrite magnet system.
- FEA designed suspension system.
- Optimized motor structure for stability and extended frequency response with low distortion.
- Long throw voice coil to ensure linear high excursion performance.
- Low Fs woofer design to be able to go deep in LFE, while still providing very clean and efficient mids
- Engineered Kevlar diaphragm, offering unique visual and acoustic experience.

Half roll rubber surround for longevity and consistency across seasons and years.

HDA series offers high quality drivers for multi-way speaker system and best suited for bass-reflex designs.

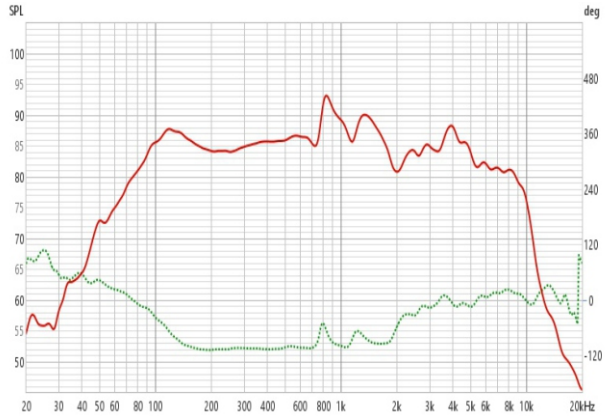
GENERAL SPECIFICATIONS:

Nominal diameter, D	in.	6.5
Nominal impedance, Z	Ω	8
Minimum impedance, Zmin	Ω	5.27
RMS Power rating	watt	50
Sensitivity (Lp)	(1W/1m)@1V	87.63 dB
Frequency range	Hz	40-10000
Voice coil diameter	mm	26
Chassis material	Mild Steel	
Magnet material	Ferrite Y35	
Magnet dimensions OD x ID x h	mm	86x32x15
Coil material	Copper	
Former material	Kapton	
Cone material	Kevlar	
Surround material	Nitrile Rubber	
Xmax (4)	mm	5
Xmech (5)	mm	15
Gap height	mm	5
Voice coil winding height	mm	11.5

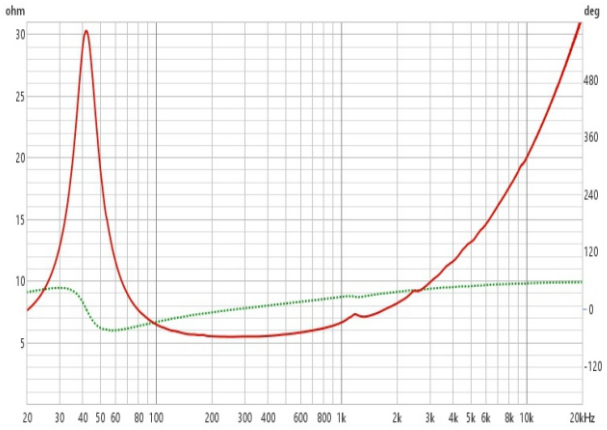
SMALL SIGNAL PARAMETERS:

DC resistance, Rdc	Ω	5.00
Resonance frequency, Fs	Hz	42.7
Moving mass, Mms	g	10.52
Compliance, Cms	mm/N	1.320
Force factor, Bl	Tm	4.457
Mechanical Q-factor, Qms		3.852
Electrical Q-factor, Qes		0.712
Total Q-factor, Qts		0.601
Equivalent air volume, Vas	litres	32.98
Voice coil Inductance, Le	mH	0.736
Diaphragm area, Sd	cm^2	132.7
Mechanical resistance,Rms	kg/s	0.733

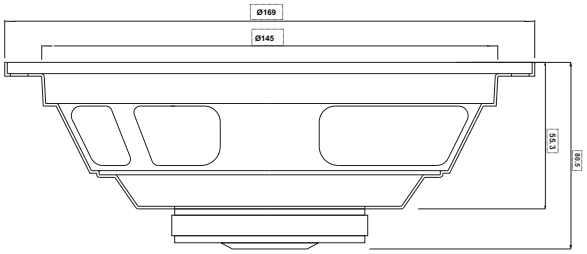
FREQUENCY RESPONSE:

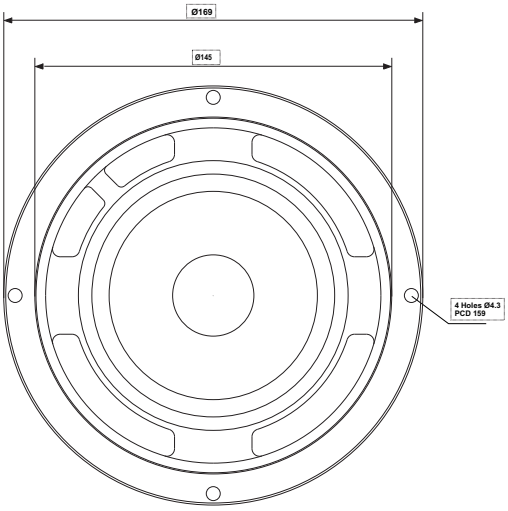


IMPEDANCE:



DRAWING DIMENSIONS (mm)





NOTE:

(1). Tested for two hours using a continuous band-limited pink noise signal as per AES 2-1984 Rev. 2003.
(2). Loudspeaker tested in free air.
(3). T/S Parameters, measured and cross validated with two different modules.
(4). Its measured after pre-conditioning at 25°C- 30°C, 50% humidity for 2 hours.
(5). Xmax is calculated as:
(Hvc – Hg) / 2 + Hg/4. Hvc is the voice coil height and Hg is the height of gap.